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# NOTICE OF ALLOWANCE AND FEE(S) DUE

512

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02/22/2008

WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021

EXAMINER				
PRINCE, FRED G				
ART UNIT PAPER NUMBER				

1797 DATE MAILED: 02/22/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/564,483	03/14/2007	Kazumasa Kamachi	2006-0024A	8977

TITLE OF INVENTION: PROCESS AND APPARATUS FOR ANAEROBIC TREATMENT OF SULFUR COMPOUND-CONTAINING WASTEWATER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	05/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification.	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (	orders and notification of a) specifying a new cor	of m resp	aintenance fees woondence address;	rill be i and/or	mailed to the current (b) indicating a sepa	correspondence addre rate "FEE ADDRESS	ess as S" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800			I	here	Cert eby certify that this s Postal Service w	t <b>ificate</b> is Fee(s	of Mailing or Transi 3) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited with the U	Inited elope simile
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO	Э.
10/564,483 TITLE OF INVENTION	03/14/2007 N: PROCESS AND APP	ARATUS FOR ANAERO	Kazumasa Kamachi DBIC TREATMENT OF		LFUR COMPOU		2006-0024A NTAINING WASTE	8977 WATER	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Æ	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1440	\$300		\$0		\$1740	05/22/2008	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS						
PRINCE,	, FRED G	1797	210-603000						
"Fee Address" ind PTO/SB/47; Rev 03-( Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp		data will appear on the	ativengle or agottori be ptope type type an a	firm (having as a gent) and the name on agents. If printed.	membes of up no nam	er a 2oto e is 3	ocument has been file	ed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity 🚨 Govern	ment
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	<b>itus</b> (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no l		on alaimina CMAI	I DAM	PITY status Con 27 CI	ED 1.27(~)(2)	
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be acceptentes Patent and Trademarl	ed from anyone other tha						rty in
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an application. Confiden submitting the complete this form and/or suggest	ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 2 USPTO. Time will vary rden, should be sent to the 2 NOT SEND FEES OR	1.14. This collection is y depending upon the ind ne Chief Information Off	estii divi ficer	mated to take 12 r dual case. Any co r. U.S. Patent and	ninutes mment Traden	to complete, includin s on the amount of tir ark Office, U.S. Depa	g gathering, preparing ne you require to con artment of Commerce.	g, and aplete . P.O.

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# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/564,483	KAMACHI ET AL.
Notice of Allowability	Examiner	Art Unit
	FRED PRINCE	1797
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>January 22, 2008</u> .		
2. X The allowed claim(s) is/are 1 and 3 (renumbered as 1-2).		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		
2. Certified copies of the priority documents have	been received in Application No.	
3. ☑ Copies of the certified copies of the priority do	· · · —	
International Bureau (PCT Rule 17.2(a)).		3 11
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	tion is deficient.
5. X CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review ( PTO-	948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b)   including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 D Nation of Information	Not and Annill and the
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5. ☐ Notice of Informal P</li> <li>6. ☐ Interview Summary</li> </ol>	, ,
	Paper No./Mail Dat	e .
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. 🛛 Examiner's Amendr	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ul><li>8.</li></ul>	ent of Reasons for Allowance
	/Fred Prince/ Primary Examiner, Art Unit	1797

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Art Unit: 1797

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

The abstract submitted on 1/13/2006 as two paragraphs has been amended such that it consists of only one paragraph as follows:

An object of the present invention is to provide a process for a high-performance upflow anaerobic sludge treatment (methane fermentation treatment) targeting an organic wastewater containing an inorganic sulfur compound and an apparatus therefor. The invention relates to a process for methane fermentation treatment of an organic wastewater containing a sulfur compound, which includes: detecting a concentration of hydrogen sulfide in a biogas generated from a step of methane fermentation treatment; and, conducting a control of subjecting the organic wastewater to a desulfurization treatment operation in the case that the concentration of hydrogen sulfide in the biogas exceeds a predetermined value, and to an apparatus therefor. It is preferred that the predetermined value of the concentration of hydrogen sulfide is from 1% to 4%, preferably from 1% to 2%, and the desulfurization treatment operation comprises adding a desulfurizing agent containing an iron ion so that a molar ratio of the iron ion to sulfur is from 0.05 to 1.

**REASONS FOR ALLOWANCE** 

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Art Unit: 1797

1. The following is an examiner's statement of reasons for allowance: The claims are allowed for the reasons provided by applicant in the Remarks received by the Office on January 22, 2008.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Drawings

2. Replacement drawings were received on January 22, 2008. These drawings are partially accepted. Specifically, the replacement sheet showing Figs. 5a and 5b is objected to because the sheet must include Fig. 6. Applicant is respectfully reminded that a replacement sheet must include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended.

3.

## Double Patenting

4. The previous double patenting rejection has been overcome by applicant's amendment. Accordingly, applicant need not submit a terminal disclaimer.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRED PRINCE whose telephone number is (571)272-

Art Unit: 1797

1165. The examiner can normally be reached on Monday-Thursday, 6:30-4:00; alt.

Fridays 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Fred Prince/ Primary Examiner, Art Unit 1797

fgp 2/15/08